

10/501053

017216seq.txt
SEQUENCE LISTING

DT04 Rec'd PCT/PTO 09 JUL 2004

<110> YU, Long

<120> HUMAN HEPATOMA-DERIVED GROWTH FACTOR 5, ITS ENCODING SEQUENCE, METHOD FOR PRODUCING IT AND THE USES THEREOF

<130> 017216

<150> CN02110535.9

<151> 2002-01-11

<160> 8

<170> PatentIn version 3.1

<210> 1

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<212> DNA

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ttt	gcc	aaa	tta	aag	ggc	tat	gcc	cat	tgg	cca	gcg	agg	att	gaa	cat	97
Phe	Ala	Lys	Leu	Lys	Gly	Tyr	Ala	His	Trp	Pro	Ala	Arg	Ile	Glu	His	
				20					25					30		

gtc	act	gaa	ccc	aac	cgc	tac	cag	gtg	ttc	ttc	ttc	ggg	acc	cat	gag	145
Val	Thr	Glu	Pro	Asn	Arg	Tyr	Gln	Val	Phe	Phe	Phe	Gly	Thr	His	Glu	
			35					40					45			

acc	gcc	ctg	ctg	ggc	ccc	aag	cac	ctt	ttt	cct	tat	gag	gag	tcc	aag	193
Thr	Ala	Leu	Leu	Gly	Pro	Lys	His	Leu	Phe	Pro	Tyr	Glu	Glu	Ser	Lys	
		50					55					60				

gag	agg	ttc	ggc	aag	cct	aac	aag	agg	cgc	ggc	ttc	agt	gag	ggg	ctg	241
Glu	Arg	Phe	Gly	Lys	Pro	Asn	Lys	Arg	Arg	Gly	Phe	Ser	Glu	Gly	Leu	
	65					70					75					

tgg	gag	atc	gag	cac	gac	cct	atg	gct	gag	gcc	tcc	cct	tgc	ctg	tgc	289
Trp	Glu	Ile	Glu	His	Asp	Pro	Met	Ala	Glu	Ala	Ser	Pro	Cys	Leu	Cys	
80					85					90					95	

cca	gat	gag	gag	cag	ctt	tgt	gcc	gag	gag	cca	ggg	cca	gga	gag	gag	337
Pro	Asp	Glu	Glu	Gln	Leu	Cys	Ala	Glu	Glu	Pro	Gly	Pro	Gly	Glu	Glu	
				100					105					110		

cca	gag	ccg	ggg	cag	gag	ctg	gag	ccg	gaa	tcc	agg	cct	gag	ctg	gaa	385
Pro	Glu	Pro	Gly	Gln	Glu	Leu	Glu	Pro	Glu	Ser	Arg	Pro	Glu	Leu	Glu	
			115					120					125			

tcc	atg	cct	gag	ctg	gag	gca	gaa	ccg	agg	cct	gag	aaa	gag	tgt	gag	433
Ser	Met	Pro	Glu	Leu	Glu	Ala	Glu	Pro	Arg	Pro	Glu	Lys	Glu	Cys	Glu	
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ccc gag ccg gag ccg gag ccc gag ccc gag cct gcc tat gac cta ctg gat gcc Pro Glu Pro Glu Pro Glu Pro Glu Pro Gln Pro Ala Tyr Asp Leu Leu Asp Ala 180 185 190	577
aag gag gag cct ggc ctc att gag gcc gag cca gga gat cag caa gcc Lys Glu Glu Pro Gly Leu Ile Glu Ala Glu Pro Gly Asp Gln Gln Ala 195 200 205	625
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gag gag ccg gag agt ctg aag agg agc gcg gag gat gaa cag cct cac Glu Glu Pro Glu Ser Leu Lys Arg Ser Ala Glu Asp Glu Gln Pro His 225 230 235	721
agt cct ccc aaa cgg ccc agg gag gcg gcg cct ggc gcg ctg gag atg Ser Pro Pro Lys Arg Pro Arg Glu Ala Ala Pro Gly Ala Leu Glu Met 240 245 250 255	769
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Thr Glu Pro Asn Arg Tyr Gln Val Phe Phe Phe Gly Thr His Glu Thr
 35 40 45

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Ala Leu Leu Gly Pro Lys His Leu Phe Pro Tyr Glu Glu Ser Lys Glu
50 55 60

Arg Phe Gly Lys Pro Asn Lys Arg Arg Gly Phe Ser Glu Gly Leu Trp
65 70 75 80

Glu Ile Glu His Asp Pro Met Ala Glu Ala Ser Pro Cys Leu Cys Pro
85 90 95

Asp Glu Glu Gln Leu Cys Ala Glu Glu Pro Gly Pro Gly Glu Glu Pro
100 105 110

Glu Pro Gly Gln Glu Leu Glu Pro Glu Ser Arg Pro Glu Leu Glu Ser
115 120 125

Met Pro Glu Leu Glu Ala Glu Pro Arg Pro Glu Lys Glu Cys Glu Gln
130 135 140

Glu Pro Glu Gln Glu Pro Glu Gln Glu Leu Glu Gln Glu Pro Glu Leu
145 150 155 160

Glu Pro Glu Pro Glu Pro Glu Pro Glu Pro Glu Pro Glu Pro Glu Pro
165 170 175

Glu Pro Glu Pro Glu Pro Gln Pro Ala Tyr Asp Leu Leu Asp Ala Lys
180 185 190

Glu Glu Pro Gly Leu Ile Glu Ala Glu Pro Gly Asp Gln Gln Ala Glu
195 200 205

Gln Val Arg Glu Gln His Ala Glu Ala Glu Val Met Ala Val Val Glu
210 215 220

Glu Pro Glu Ser Leu Lys Arg Ser Ala Glu Asp Glu Gln Pro His Ser
225 230 235 240

Pro Pro Lys Arg Pro Arg Glu Ala Ala Pro Gly Ala Leu Glu Met Glu
245 250 255

Pro Ala Gly Glu Arg Glu Ala Glu Ala Cys Pro Phe Val Glu Glu Pro
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Asp Gln Ala Gln Glu Gln Gln Thr Pro Leu Glu Glu Glu Ala Thr Glu
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Glu Ala Val Gln Gly Leu Met Val Gly Glu Ile Glu Gly Leu

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